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mented using SIMD instructions, however, the performance. improvement is often limited due to two reasons. ... No/pavg{b,w},psadbw. No. Saturate Add/Sub. ...

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instructions such as psadbw, pavg {b,w} and rearrangement. instructions such as pshufw, ... sized using the SIMD instructions fsub12, fneg12, fmax12, ...

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in order to exploit this parallelism using SIMD instructions, the elements ... pavg {b,w} and conversion and rearrangement instructions such as ...

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For half-pixel predictions, pavg instructions are used. prior to the SIMD stores. Add-block and saturate operations are performed using packed addition ...

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The packed average (**pavg**) and packed sum of ... 2.2 **SIMD** Block Pattern Matching.










Pattern matching is implemented **using** the packed sum- ...

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L1	17740	"708"/\$.ccls. and @ad<"20000705"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/18 10:01
L2	1	(pavg or (pack\$3 adj averag\$3)) and 1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/18 09:59
L3	135	pavg	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/18 09:59
L4	3	3 and "708"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/18 09:59
L5	8	(simd or (single adj instruction adj multiple)) and 3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/18 10:00
L6	20260	"708"/\$.ccls. and @ad<"20030705"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/18 10:01
S1	500	"708"/\$.ccls. and averag\$3 and @ad<"20030705" and (fir or (finite adj impulse))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 14:11
S2	0	S1 and pavg	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 14:08

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S3	1	"708"/\$.ccls. and averag\$3 and @ad<"20030705" and pavg	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 14:09
S4	0	("2003/0097389").URPN.	USPAT	OR	ON	2006/04/10 14:09
S5	1	"708"/\$.ccls. and @ad<"20030705" and pavg	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 14:09
S6	66	@ad<"20030705" and pavg	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 14:09
S7	2	@ad<"20030705" and pavg and (fir or (finite adj impulse))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 14:10
S8	40	"708"/\$.ccls. and averag\$3 and @ad<"20030705" and (fir or (finite adj impulse)) and pack\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 14:14
S9	92	708/445.ccls. and @ad<"20030705"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 14:15
S10	4	S9 and saturat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 14:15
S11	21	S9 and round\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 14:17

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S12	44	S9 and filter\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 14:17
S13	7	S12 and (pack\$3 or (simd or (single adj instruction)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/18 10:00
S14	20	S9 and (pack\$3 or (simd or (single adj instruction)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 14:18
S15	13	S14 not S13	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 14:19
S16	17716	"708"/\$.ccls. and @ad<"20000705"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/18 09:57
S17	19957	"708"/\$.ccls. and @ad<"20030705"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/10 13:12
S18	1708	S17 and (fir or (finite adj impulse\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/10 13:57
S19	121	S18 and (averag\$3.ti. or averag\$3. clm. or averag\$3.ab.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/10 13:13

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S20	20	S19 and round\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/10 13:13
S21	4	S19 and round\$35 and saturat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/10 13:15
S22	16	S20 not S21	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/10 13:38
S23	1	pavg and S17	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/10 13:39
S24	304	S17 and round\$3 and saturat\$3 and S17	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/10 13:39
S25	207	S24 and factor\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/10 13:39
S26	1	S25 and 708/445.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/10 13:40
S27	92	708/445.ccls. and @ad<"20030705"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/10 13:43

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S28	21	S27 and round\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/10 13:41
S29	1	saturat\$3 and S28	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/10 13:41
S30	382	708/445,551,497.ccls. and @ad<"20030705"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/10 13:43
S31	50	S30 and averag\$3 and round\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/10 13:43
S32	44	S31 and (up or down)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/10 13:44
S33	8	(US-20030097389-\$).did. or (US-6007232-\$ or US-6512523-\$ or US-6795841-\$ or US-6237016-\$ or US-6084907-\$ or US-4588979-\$ or US-6889242-\$).did.	US-PGPUB; USPAT	OR	ON	2006/05/10 13:49
S34	1642057	S33 filter\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/10 13:54
S35	3	S33 and filter\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/10 13:54

EAST Search History

S36	3	S33 and filter\$1 and averag\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/10 13:54
S37	3	S33 and (fir or (finite adj impulse\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/10 13:57
S38	3	S33 and (fir or (finite adj impulse\$1)) and average	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/10 14:00
S39	1	pavg and S33	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/10 14:06
S40	4	S33 and average and round\$3 and factor\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/10 14:06